

REGULATION V - AIR QUALITY STANDARDS AND AREA CLASSIFICATION

RULE 510 AIR QUALITY STANDARDS

INDEX

SECTION 100 - GENERAL

101 PURPOSE

SECTION 200 - DEFINITIONS (NOT INCLUDED)

SECTION 300 - STANDARDS

- 301 TOTAL SUSPENDED PARTICULATES
- 302 PARTICULATE MATTER - 10 MICRONS OR LESS
- 303 SULFUR DIOXIDE
- 304 OZONE
- 305 CARBON MONOXIDE
- 306 NITROGEN DIOXIDE
- 307 LEAD
- 308 POLLUTANT CONCENTRATION DETERMINATIONS

SECTION 400 - ADMINISTRATIVE REQUIREMENTS

- 401 PUBLIC NOTIFICATION OF AIR QUALITY STANDARDS VIOLATIONS

SECTION 500 - MONITORING AND RECORDS (NOT INCLUDED)

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**MARICOPA COUNTY
AIR POLLUTION CONTROL REGULATIONS**

REGULATION V - AIR QUALITY STANDARDS AND AREA CLASSIFICATION

**RULE 510
AIR QUALITY STANDARDS**

SECTION 100 - GENERAL

101 PURPOSE: To establish maximum limiting levels for pollutants existing in the ambient air which are necessary to protect human health and public welfare.

SECTION 300 - STANDARDS: The following are established as the ambient air quality standards for Maricopa County:

301 TOTAL SUSPENDED PARTICULATES:

301.1 Annual Geometric Mean: The maximum allowable annual geometric mean concentration shall be 75 micrograms per cubic meter.

301.2 24-hour Concentration: The maximum allowable 24-hour concentration shall be 260 micrograms per cubic meter. This concentration shall not be exceeded more than once per year at any one location.

302 PARTICULATE MATTER - 10 MICRONS OR LESS:

302.1 Annual Arithmetic Mean: The maximum allowable annual arithmetic mean concentration shall be 50 micrograms per cubic meter. To determine attainment, the annual arithmetic mean is calculated by averaging the annual arithmetic averages from three successive years of data.

302.2 24-hour Concentration: The maximum allowable 24-hour concentration shall be 150 micrograms per cubic meter. This concentration shall not be exceeded more than once per year at any one location.

303 SULFUR DIOXIDE:

303.1 Annual Arithmetic Mean Concentration: The maximum allowable annual arithmetic mean concentration shall be 80 micrograms per cubic meter (0.03 ppm).

303.2 24-hour Concentration: The maximum allowable 24-hour concentration for sulfur dioxide shall be 365 micrograms per cubic meter (0.14 ppm). This concentration shall not be exceeded more than once per year at any one location.

303.3 Three-hour Concentration: The maximum allowable 3-hour concentration for sulfur dioxide shall be 1300 micrograms per cubic meter (0.5 ppm). This concentration shall not be exceeded more than once per year at any one location.

304 OZONE:

304.1 One-hour Average Concentration: The maximum allowable one-hour average concentration shall be 0.12 parts per million (235 ug/m³). This concentration shall not be exceeded more than once per year at any one location.

305 CARBON MONOXIDE:

305.1 One-hour Concentration: The maximum allowable one-hour concentration shall be 35 ppm (40 mg/m³). This concentration shall not be exceeded more than once per year at any one location.

305.2 Eight-hour Concentration: The maximum allowable eight-hour concentration shall be 9 ppm (10 mg/m³). This concentration shall not be exceeded more than once per year at any one location.

306 NITROGEN DIOXIDE:

306.1 Annual Arithmetic Mean Concentration: The maximum allowable annual arithmetic mean concentration for nitrogen dioxide shall be 100 micrograms per cubic meter (0.05 ppm).

307 LEAD:

307.1 Quarterly Arithmetic Mean Concentration: The maximum allowable lead concentration shall be 1.5 micrograms per cubic meter, arithmetic mean as averaged over a calendar quarter.

308 POLLUTANT CONCENTRATION DETERMINATIONS: Except as provided under subsections 309.1 and 309.2 of this rule, pollutant concentrations shall be measured by the following appendices to Title 40, Part 50 of the Code of Federal Regulations:

| <u>Pollutant</u> | <u>CFR 40, Part 50</u> |
|--|------------------------|
| Total Suspended Particulates | Appendix B |
| Particulate Matter (PM ₁₀) | Appendix J |
| Sulfur Dioxide | Appendix A |
| Ozone | Appendix D |
| Carbon Monoxide | Appendix C |
| Nitrogen Dioxide | Appendix F |
| Lead | Appendix G |

308.1 Reference or Equivalent Methods: Pollutant concentrations shall also be measured by:

- a. A method of measurement that has been designated, prior to the effective date of this regulation, as a reference or equivalent method by the Administrator acting pursuant to Title 40, Part 53 of the Code of Federal Regulations.
- b. A method of measurement that, though not designated as a reference or equivalent method, has been approved for use prior to the effective date of this regulation, by the Administrator acting pursuant to Title 40, Part 51, Section 51.17a of the Code of Federal Regulations. Such method shall be subject to any restrictions placed on its use by the Administrator.

308.2 Additional Methods: The Control Officer may approve additional methods of measurement upon a finding that:

- a. The method of measurement proposed for use has been designated, subsequent to the effective date of this regulation, a reference or equivalent method by the Administrator acting pursuant to Title 40, Part 53 of the Code of Federal Regulations.
- b. The accuracy and other performance specifications of the method of measurement for which approval is sought make that method substantially equivalent or superior to methods previously approved for use.

308.3 Method Withdrawal: The cancellation or supersession of designation of a reference or equivalent method, subsequent to the effective date of these regulations, by the Administrator acting pursuant to Title 40, Part 53, Sections 53.11 and 53.16 of the Code of Federal Regulations, shall also amount to a withdrawal of the authorization for use of that method for purposes of this regulation. However, such withdrawal of the authorization

shall not become effective until the Administrator has determined that such withdrawal was supported by sufficient evidence and has specified a period of not less than nine months in which existing, non-approved analyzers may be replaced.

SECTION 400 - ADMINISTRATIVE REQUIREMENTS

401 PUBLIC NOTIFICATION AIR STANDARDS VIOLATIONS: Any violations of the National Ambient Air Quality Standards (NAAQS) which have occurred during the previous calendar year shall be communicated to the public in an annual report. This report shall be issued each year no later than August 1 and shall include the following:

- 401.1** The date, time and duration of any pollutant level exceeded. The levels shall be expressed through the use of the Pollution Standard Index (PSI).
- 401.2** An explanation to the public of any health hazards associated with each pollutant level exceeded. This shall be in the form of a narrative supported with statistical documentation.
- 401.3** Suggestions to the public on ways that the violation might be avoided in the future and what steps can be taken to alleviate the severity of the violations while they are occurring.
- 401.4** A description of ways in which the public can participate in the regulatory process including a summary of proposed regulatory changes for the coming year and a tentative schedule of public meetings which will be held to consider changes and new regulations.